M. A. R. 57 (Rule 116) **No. E**

Measurement Book 617358

Serial No. 2nd and Part bill

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... C.T. Raju .....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work:	Comprensive and Surrounding PACKAGE	development of footpath in HMT areas in (2019-20)		layout, ward RRN DIV(10)	Roads, drains, SBM colony and NO.17 Under
	Est. Cost : →	1100.00 Lakhs					
	JOB Code : →	017-20-000008					
	As No. : →	EE/RRN/AS/149/2020-21			dated: 02.09.2020		
	Tr No. : →	CE/RRN/TS/231/2019-20			dated 20.01.2020		
	Work order No : →	EE/RRND/WO.No/000083/2020-21					

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MEASUREMENT BOOK

Sl.No	Date	Full description, etc, of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
	1	2		3	4	5		7	
				Qty (Previous)	Cost	Qty (Present)	Rate	Cost	Total Qty up to date / Cost
1)		Removing and Refixing stone of drains and Pointing in CM(1:3)	sqm	12525.19	1377771.00	0.00	110.00	0.00	12525.19 / 1377771.00
2)		Earthwork excavation by manual means in ordinary soil involving in average upto 2m	cum	8821.72	2028996.00	0.00	230.00	0.00	8821.72 / 2028996.00
3)		Plain cement Concrete 1:3:6 mix with Crushed stone 40m nominal size mechanical mixed. placed in foundation and compacted by vibrating	cum	21.73	96681.00	0.00	4450.00	0.00	21.73 / 96681.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 617359

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2		3		5		7	
			Qty (Previous)	Cost	Qty (Present)	Rate	Cost	Total Qty up to date / Cost
4)	Providing Plain/reinforced Cement Concrete for side drains Using M20 nomial mix Concrete with OPC at 310 Kg	cum	61.56	430899.00	0.00	7000.00	0.00	61.56 / 430899.00
5)	Providing T.M.T steel reinforcement for RCC Work including, cutting bending, hooking, placing in position, lapping	Tn	4.92	356046.00	0.00	72300.00	0.00	4.92 / 356046.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement	
		Number	Length	Breadth	Depth		Total up to date	
1	2	3	4	5	6	7		
		Unit	Qty	Cost	Qty	Rate	Cost	Qty	Cost
	6). Providing and constructing Pre-cast Concrete solid blocks with Compressive strength not less than 3.5 newton per sqm with Cement mortar 1:4 size 400 x 200 x 200 m	sqm	4879.20	4635240.00	0.00	950.00	0.00	4879.20	4635240.00
	7). Providing Rubd pointing to courked stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining	sqm	19289.40	2700516.00	0.00	140.00	0.00	19289.40	2700516.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 617360

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement	
		Number	Length	Breadth	Depth		Total up to date	
1	2	3	4	5	6	7		
		Unit	Qty	Cost	Qty	Rate	Cost	Qty	Cost
	8). Providing & laying in position plain Cement Concrete of Mix 1:2:4	cum	964.47	5352809.00	0.00	5550.00	0.00	964.47	5352809.00
	9). Providing granite slabs of selected quality roughly dressed having a size of 10cm thick and fixed in cement mortar	sqm	5522.63	5301720.00	0.00	960.00	0.00	5522.63	5301720.

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MEASUREMENT BOOK

Date	Full description, etc. of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total upto date Qty	Cost
1	2		3 Previous Qty	Cost	5 Present Qty	Rate	7 Cost		
	10) Providing One line dressing to granite stone slab/ granite stone masonry as per specification.	sqm	5522.63	5246494.00	0.00	950.00	0.00	5522.63	5246494.00
	11) Providing chamfering edges to stone slab 2.5cm wide as per the direction	sqm	25771.20	1546272.00	0.00	60.00	0.00	25771.20	1546272.00
	12) Providing & laying precast drain Cover slab of 250mm thickness in CM 1:3 including Cost of labour. (1.2 × 0.60 × 0.25) Data date	sqm	120.70	651780.00	0.00	5400.00	0.00	120.70	651780.00

M. A. R. 57 (Rule 116) No. E 617361

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work		Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total upto date Qty	Cost
1	2		3 Previous Qty	Cost	5 Present Qty	Rate	7 Cost		
	13) Removing & resetting of Kerb stones	M	10670.92	1067092.00	0.00	100	0.00	10670.92	1067092.00
	14) Providing & fixing pre cast Solid concrete kerb stones of size 450 × 150 × 500mm	No's	13301.00	6118460.00	0.00	460.00	0.00	13301.00	6118460.00
	15) Painting two coats after filling the surface with synthetic enamel paint	sqm	7596.36	638094.00	0.00	84.00	0.00	7596.36	638094.00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total up to date
1	2		3 Previous	4 Present	5	6	7	8
			Qty	Cost	Qty	Rate	Cost	Qty / Cost
16).	Dismantling of cement Concrete pavement by mechanical means duly took.	cum	350.09	157541.00	0.00	450.00	0.00	350.09 / 157541.00
17).	Excavation for road work in all types of soil with hydraulic excavator of 0.9cum bucket Capacity including Cutting & Loading.	cum	352734	296297.00	206.94	84.00	17383.00	3734.28 / 313680.00
18).	Construction of granular sub grading V-Sub base & drainage layer.	cum	1588.63	3161366.00	103.13	1990.00	205237.00	1691.76 / 3366603.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 617362

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total up to date
1	2		3 Previous	4	5 Present	6	7	8
19).	Providing, laying, spreading Wet mix macadam vibratory roller.	cum	1899.09	4083037.00	157.11	2150.00	337793.00	2056.90 / 4420830.00
20).	Providing & applying primer Coat with S.S. bitumen emulsion on prepared surface of granular Sub-base	sqm	8256.90	231193.00	683.10	28.00	19127.00	8940.00 / 250320.00

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MEASUREMENT BOOK

Date	Full description, etc, of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total up to date
1	2		3 Previous	4	5	6 Present	7	8 up to date
21)	Clearing the existing black topped surface with broom, soft brusher & dusting	Sqm	42585.09	21292.50	5284.17	5.00	26421.00	47869.26	239346.00
22)	Providing & applying tack Coat using 80/100 (VG 10) on prepared black topped surface at 2.5 kg per 10sqm	Sqm	93427.08	1121125.00	7638.17	12.00	92138.00	101105.25	1213263.00
23).	Providing dense graded bituminous macadam using aggregate VG30 grade bitumunous binder	Cum	254210	17794697.50	367.66	7000.00	2573631.00	2909.76	20368328.00

M. A. R. 57 (Rule 116)
Measurement Book

No. E 617363

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Unit	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement: Total up to date	
			3 Previous		5 Present		7		
			Qty	Cont	Qty	Rate	Cont	Qty	Cont
24).	Providing & laying bituminous Concrete Using Crushed aggregate of specific grading, Premixed with bituminous binder.	Cum	2033.68	16269437.00	294.13	8000.00	2353034.00	2327.81	18622471.00
25).	Road marking with Hot applied thermoplastic Compound with reflecting glass beds	Sqm	0.00	0.00	0.00	545.00	0.00	0.00	0.00

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MEASUREMENT BOOK

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth		Total up to date	
1	2		3 Previous	4	5 Present	6	7		
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
26). Road markers / Road stud providing and fixing 100x100 mm		Nos	0.00	0.00	0.00	400.00	0.00	0.00	0.00
27). Providing & Constructing dry lean Cement Concrete mix cc 1:5:10 base with OPC 25mm & down size 0.88cm & fine aggregate @ 0.58cm.		cum	350.09	1610419.00	0.00	4600.00	0.00	350.09	1610419.00
28). Constructing un-reinforced, plain cement concrete for pavements using M30 over a prepared base OPC coarse aggregate at 0.46cum		cum	400.00	2000800.00	0.00	5002.00	0.00	400.00	2000800.00

M. A. R. 57 (Rule 116) No. E 617364
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work		Dimensions				Contents	Reference to last Measurement	
			Number	Length	Breadth	Depth		Total up to date	
1	2		3 Previous	4	5 Present	6	7		
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
29). Vacuum de-watering with vacuum pump & suction mat with floted clubbed with floating disc including cost of generator.		sqm	2000.00	144040.00	0.00	72.02	0.00	2000.00	144040.00
				Total amount →			5624764.00		90256511.00
				GST 12 % →			674971.68		10830781.32
				Grand total →			6299735.68		101087292.32

Certificate:
1. The above work has been completed satisfactory.
2. The debris has been removed & disposed from work spot
3. No departmental issues are made to the contractor.

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Block - 11					Block - 10	
	W0084 PPC factory — Asphalt					W0125 W0123 — Asphalt	

M. A. R. 57 (Rule 116)
Measurement Book

No. E 617365

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Block - 9 IYER high school W0118 W0333 W0335 — Asphalt					Block - 8 Children school W0260 — Asphalt	

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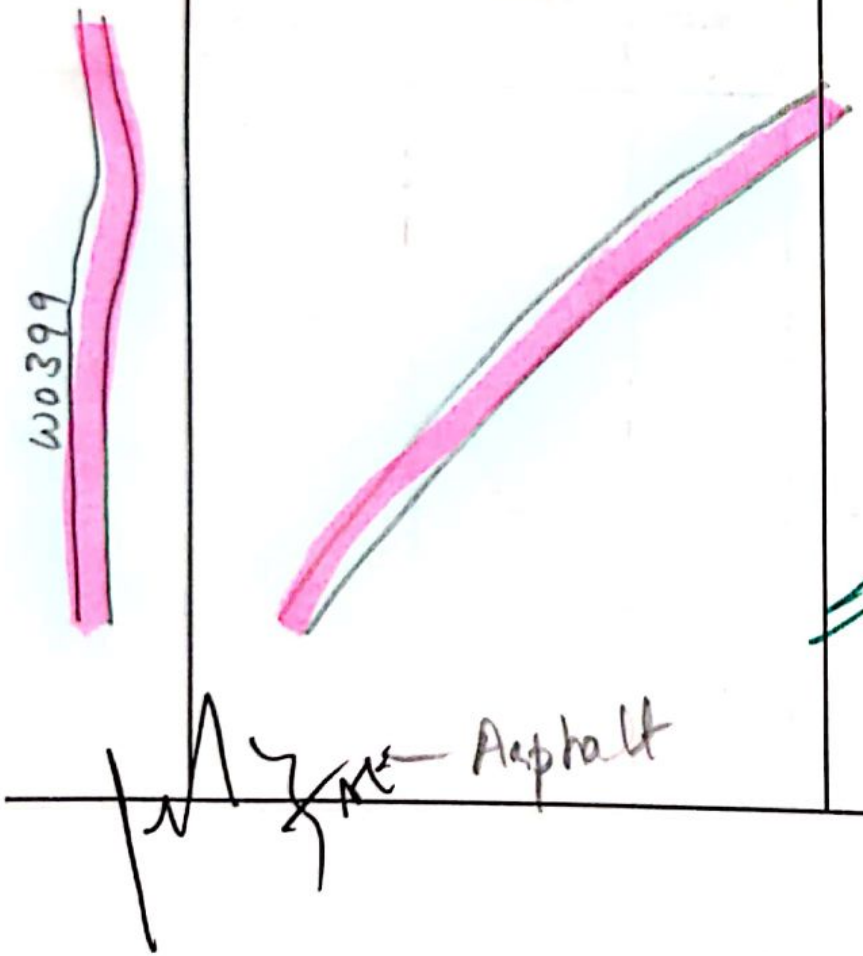
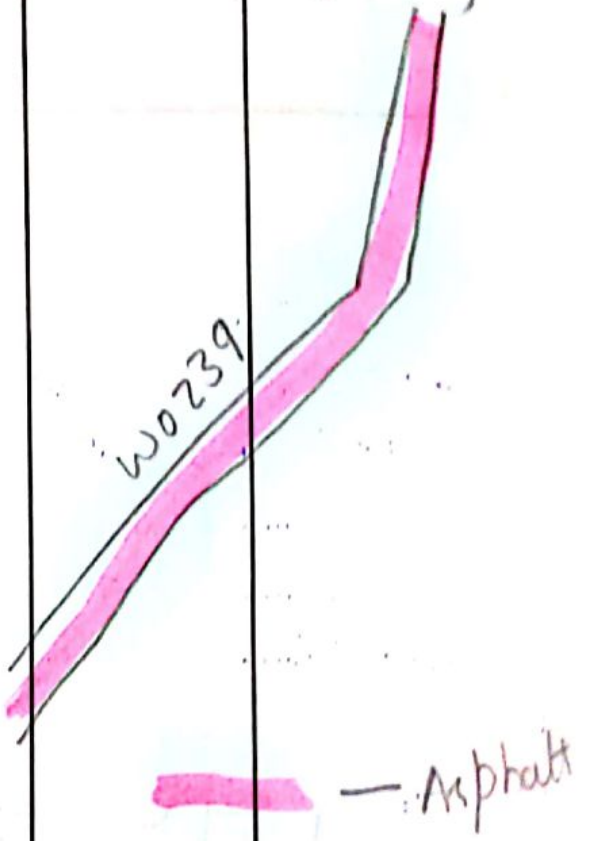
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Block-7



Block- 14



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